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(Original Signature of Member)

110TH CONGRESS
1ST SESSION

H. R. 3916

To provide for the next generation of border and maritime security technologies.

IN THE HOUSE OF REPRESENTATIVES

Mr. HALL of Texas introduced the following bill; which was referred to the Committee on _____

A BILL

To provide for the next generation of border and maritime security technologies.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. ENSURING RESEARCH ACTIVITIES OF THE DE-**
4 **PARTMENT OF HOMELAND SECURITY IN-**
5 **CLUDE APPROPRIATE CONCEPTS OF OPER-**
6 **ATION.**

7 The Under Secretary for Science and Technology of
8 the Department of Homeland Security (in this Act re-
9 ferred to as the "Under Secretary") shall ensure that any

1 Federal Government interagency or intra-agency agree-
2 ment to develop and transition new technology explicitly
3 characterizes the requirements, expected use, and concept
4 of operations for that technology, including—

5 (1) the manpower needed to effectively operate
6 the technology;

7 (2) the expected training requirements; and

8 (3) the expected operations and maintenance
9 costs.

10 **SEC. 2. REAUTHORIZATION OF HOMELAND SECURITY**

11 **SCIENCE AND TECHNOLOGY ADVISORY COM-**

12 **MITTEE.**

13 Section 311(j) of the Homeland Security Act of 2002
14 (6 U.S.C. 191(j)) is amended by striking “on December
15 31, 2008” and inserting “on December 31, 2012”.

16 **SEC. 3. REPORT ON BASIC RESEARCH NEEDS FOR BORDER/**

17 **MARITIME SECURITY.**

18 Not later than 3 months after the date of enactment
19 of this Act, the Under Secretary shall enter into an ar-
20 rangement with the National Research Council for an as-
21 sessment of the basic science research needs in the border
22 and maritime security domain. The assessment shall in-
23 clude consideration of—

24 (1) detection, tracking, and identification tech-
25 nologies;

- 1 (2) personal protective equipment;
- 2 (3) anticounterfeit technologies; and
- 3 (4) advanced screening technologies at ports of
- 4 entry.

5 **SEC. 4. INCORPORATING UNMANNED AERIAL VEHICLES**
6 **INTO BORDER/MARITIME AIRSPACE.**

7 (a) RESEARCH AND DEVELOPMENT.—The Secretary
8 of Homeland Security and the Director of the Joint Plan-
9 ning and Development Office shall research and develop
10 technologies to permit routine operation of unmanned aer-
11 ial vehicles within the national airspace for border and
12 maritime security missions without any degradation of ex-
13 isting levels of safety for all national airspace system
14 users.

15 (b) PILOT PROJECTS.—The Secretary shall coordi-
16 nate with the Administrator of the Federal Aviation Ad-
17 ministration to enter into pilot projects in sparsely popu-
18 lated, low-density Class G air traffic airspace to conduct
19 experiments and collect data in order to accelerate the safe
20 integration of unmanned aircraft systems into the national
21 airspace system.

22 **SEC. 5. ESTABLISHING A RESEARCH PROGRAM IN TUNNEL**
23 **DETECTION.**

24 (a) RESEARCH AND DEVELOPMENT.—The Under
25 Secretary shall research and develop technologies to per-

1 mit detection of near surface voids, such as tunnels, with
2 an emphasis on technologies with real time capability.

3 (b) COORDINATION.—The Secretary of Homeland Se-
4 curity shall coordinate with other appropriate Federal
5 agencies, including the Department of Defense, and en-
6 sure the integration of activities under subsection (a) with
7 relevant efforts of such other agencies and the Depart-
8 ment of Homeland Security's Centers of Excellence Pro-
9 gram.

10 **SEC. 6. RESEARCH IN ANTICOUNTERFEIT TECHNOLOGIES.**

11 (a) ESTABLISHMENT OF PROGRAM.—The Under Sec-
12 retary and the Director of the National Institute of Stand-
13 ards and Technology shall establish a joint research and
14 development program on anticounterfeit technologies and
15 standards. The program may include development of coun-
16 terfeit-resistant documentation, counterfeit-resistant de-
17 vices, document validation technologies, and document
18 identification standards.

19 (b) COORDINATION.—In carrying out the program in
20 subsection (a), the Under Secretary or his designee shall
21 coordinate with other Federal agencies engaged in similar
22 activities, including Immigration and Customs Enforce-
23 ment, the Department of State, the Department of De-
24 fense, and the Department of Justice.

1 (c) REPORT TO CONGRESS.—Not later than 12
2 months after the date of enactment of this Act, the Under
3 Secretary and the Director of the National Institute of
4 Standards and Technology shall provide to the Committee
5 on Homeland Security and the Committee on Science and
6 Technology of the House of Representatives, and the Com-
7 mittee on Homeland Security and Government Affairs of
8 the Senate, a report detailing the actions taken by the
9 Under Secretary and the Director under this section.